



NEW MEXICO OIL CONSERVATION DIVISION  
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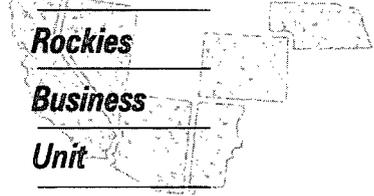
Southern

Rockies

Business

Unit

5/22/96  
DHC-1247



April 23, 1996

Mr. William J. LeMay, Director  
New Mexico Oil Conservation Division  
2040 S. Pacheco Street  
P. O. Box 6429  
Santa Fe, NM 87505

**Application for Exception to Rule 303-C - Downhole Commingling  
Barrett A #1E Well  
Unit G Section 20-T31N-R9W  
Basin Dakota and Blanco Mesaverde Pools  
San Juan County, New Mexico**

Enclosed please find an administrative application form (C-107-A) and attachments for downhole commingling for the captioned well. By copy of this application by certified mail, return receipt requested, Amoco is notifying all offset operators in the formations captioned above as well as all affected interest owners if the ownership of those formations is not common. The Division Director may approve the proposed downhole commingling in the absence of a valid objection from any offset operator or any interest owner in those instances where ownership is not common in the zones to be commingled within 20 days after the receipt of the application if, in his opinion, waste will not result thereby, and correlative rights will not be violated.

Should there be questions concerning this matter, please contact me at (303) 830-5344.

Sincerely,

Pamela W. Staley

Enclosures

cc: Mike Kutas  
Patty Haefele  
Wellfile  
Proration File  
Frank Chavez, Supervisor  
NMOCD District III  
1000 Rio Brazos Road  
Aztec, NM 87410

Duane Spencer  
Bureau of Land Management  
1235 La Plata Hwy.  
Farmington, NM 87401

OIL CONSERVATION DIVISION

APPROVAL PROCESS:

DISTRICT II  
811 South First St., Artesia, NM 88210-2835

2040 S. Pacheco  
Santa Fe, New Mexico 87505-8429

Administrative  Hearing

DISTRICT III  
1000 Rio Brazos Rd. Aztec, NM 87410-1693

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE  
 YES  NO

<b>Amoco Production Company</b>	P.O. Box 800 Denver, CO 80201
Operator <b>BARRETT A</b>	Address <b>G-20-31N-9W</b>
Lease <b>1E</b>	Unit Ltr. - Sec Twp - Rge <b>San Juan</b>
Spacing Unit Lease Types: (check 1 or more)	

OGRID NO. 000778 Property Code 000302 API NO. 3004525943 Federal  State  (and/or) Fee

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	BLANCO MESAVERDE 72319		BASIN DAKOTA 71599
2. Top and Bottom of Pay Section (Perforations)	4628' - 5685'		7490' - 7724'
3. Type of production (Oil or Gas)	GAS		GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
5. Bottomhole Pressure <small>Oil Zones - Artificial Lift: Gas &amp; Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated or Measured Original</small>	a. (Current) 628 PSI (EST)	a.	a. 726 PSI
	b. (Original) 1238 PSI	b.	b. 2392 PSI
6. Oil Gravity (° API) or Gas BTU Content	1150 BTU / 41.5 DEG API		1050 BTU
7. Producing or Shut-In?	NEW		SHUT-IN
Production Marginal? (yes or no)  • If Shut-In, give data and oil/gas/water rates of last production  <small>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data</small>  • If Producing, give date and oil/gas/water rates of recent test (within 60 days)	NO		YES
	Date: Rates: (EST) 400 MCFD 1 BCPD 1 BWPD	Date: Rates:	Date: Rates: 8-9/94 60 MCFD 0 BCPD 0 BWPD
	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula -% for each zone	Oil: % Gas %	Oil: % Gas %	Oil: % Gas %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.
10. Are all working, overriding, and royalty interests identical in all commingled zones?  Yes  No  
If not, have all working, overriding, and royalty interests been notified by certified mail?  Yes  No  
Have all offset operators been given written notice of the proposed downhole commingling?  Yes  No
11. Will cross-flow occur?  Yes  No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable.  Yes  No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other?  Yes  No
13. Will the value of production be decreased by commingling?  Yes  No (If Yes, attach explanation)
15. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application.  Yes  No SF-078336-B
16. ATTACHMENTS:  
 \* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.  
 \* Production curve for each zone for at least one year. (If not available, attach explanation.)  
 \* For zones with no production history, estimated production rates and supporting data.  
 \* Data to support allocation method or formula. **XX See Attached**  
 \* Notification list of all offset operators.  
 \* Notification list of working, overriding, and royalty interests for uncommon interest cases.  
 \* Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE  TITLE REGULATORY AFFAIRS REP DATE 4/23/96  
 TYPE OR PRINT NAME PAMELA W. STALEY TELEPHONE NO. ( 303 ) 830-5344

All distances must be from the outer boundaries of the Section.

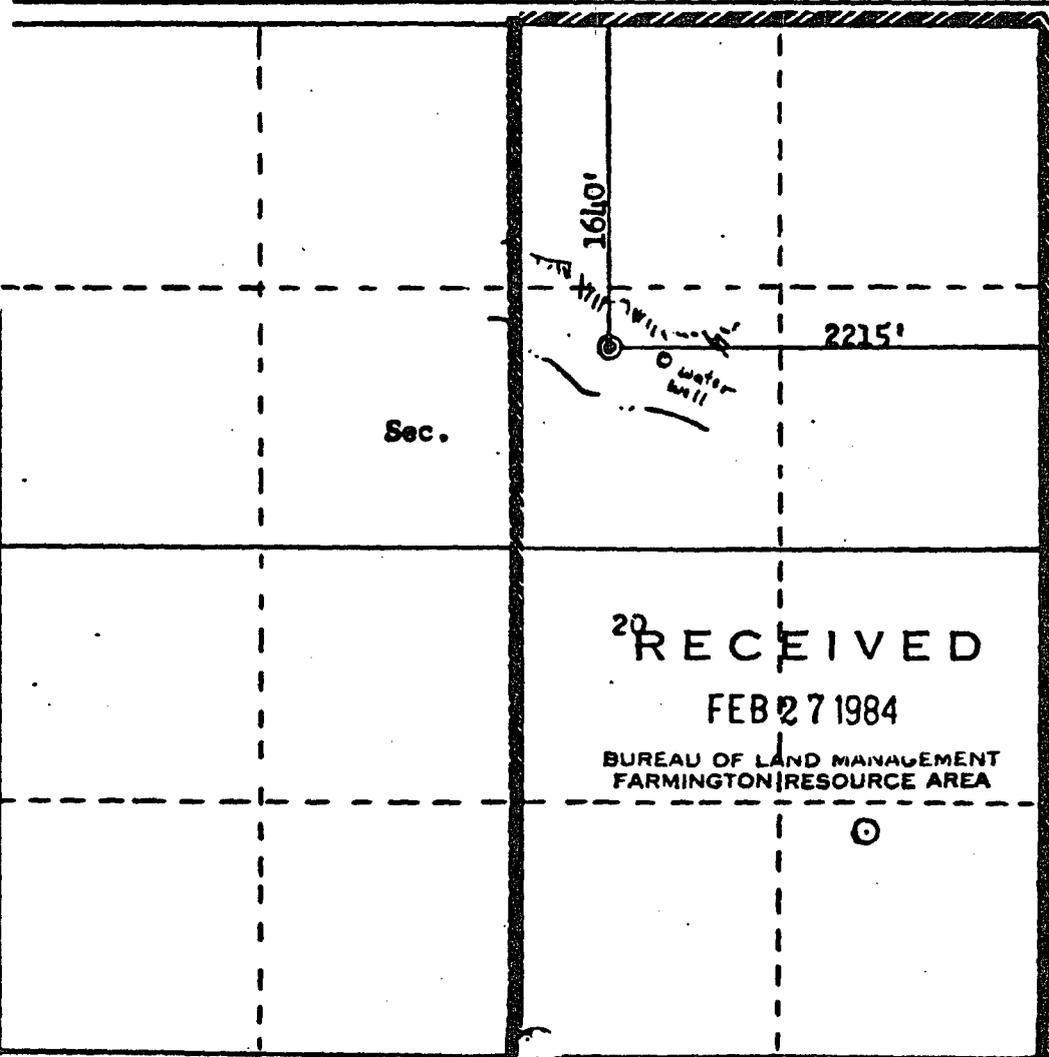
TENNECO OIL COMPANY			Lease BARRETT "A"		Well No. 1E
Section 20	Township 31N	Range 9W	County San Juan		
Actual Footage Location of Well: 1640 feet from the North line and 2215 feet from the East line					
Sound Level Elev. 6262	Producing Formation Dakota	Pool Basin Dakota	Dedicated Acreage: 320 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes  No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



Scale: 1"=1000'

<b>CERTIFICATION</b>	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
Name	John Orr
Position	Production Analyst
Company	Tenneco Oil Company
Date	February 22, 1984
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.	
Date Surveyed	December 30, 1983
Registered Professional Engineer and Land Surveyor	
Fred B. Kett Jr.	
Certification No. 4222	
3950	

District I  
 PO Box 1980, Hobbs, NM 88241-1980  
 District II  
 811 South First, Artesia, NM 88210  
 District III  
 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV  
 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
 Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
 2040 South Pacheco  
 Santa Fe, NM 87505

Form C-102  
 Revised October 18, 1994  
 Instructions on back  
 Submit to Appropriate District Office  
 State Lease - 4 Copies  
 Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-25943		2 Pool Code 72319		3 Pool Name Blanco Mesaverde	
4 Property Code 000302		5 Property Name Barrett A			6 Well Number 1E
7 OGRID No. 000778		8 Operator Name Amoco Production Company			9 Elevation 6262'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	20	31N	9W		1640	North	2215	East	San Juan

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 320	13 Joint or Infill	14 Consolidation Code	15 Order No.
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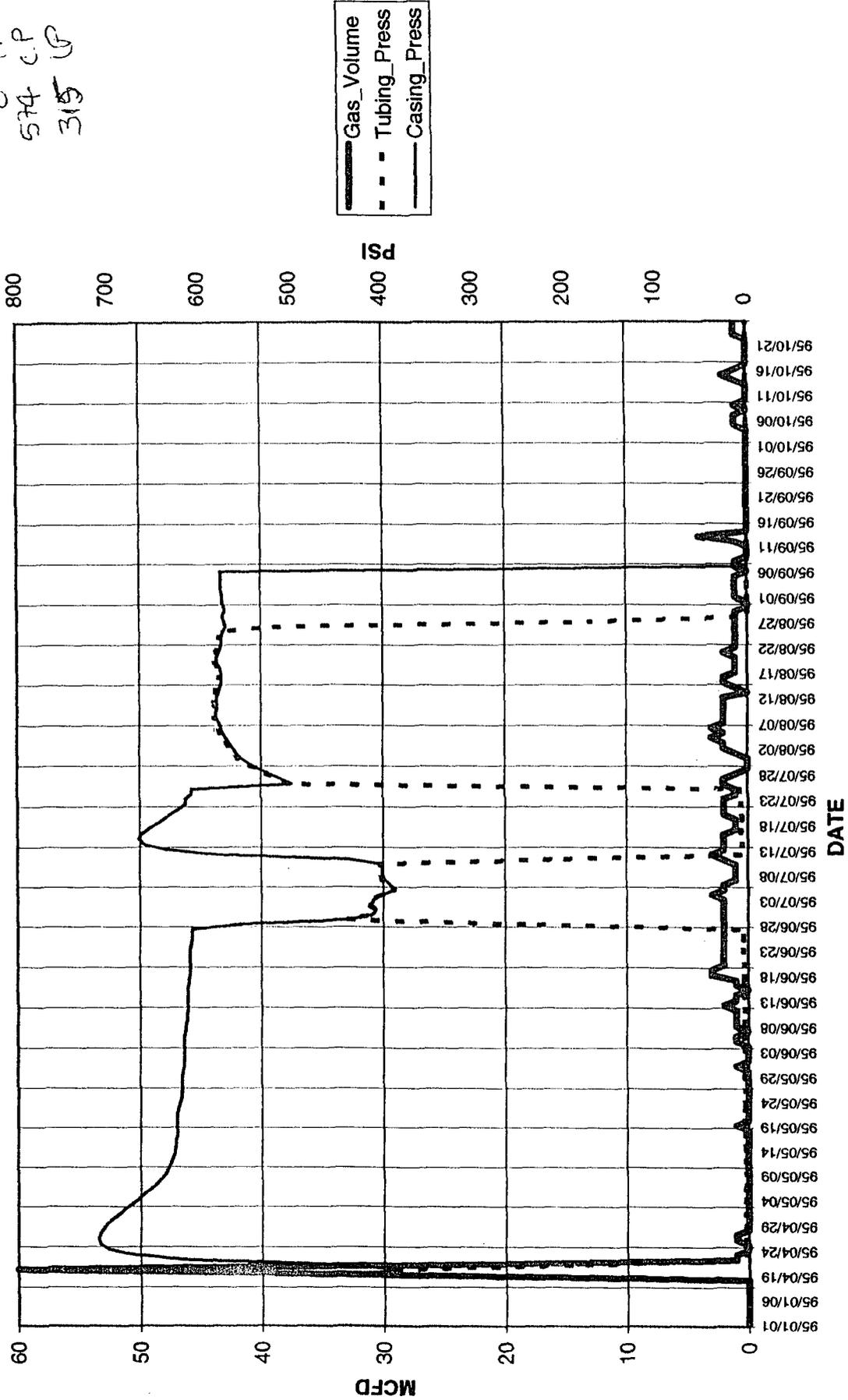
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16					<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</p> <p><i>Patty Haefele</i>          Signature          Patty Haefele</p> <p>Printed Name          Staff Assistant</p> <p>Title          4/16/96</p> <p>Date</p>
			1640'		
				2215'	
					<p>18 SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>12/30/83</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyer:</p> <p>on file</p> <p>3950</p> <p>Certificate Number</p>

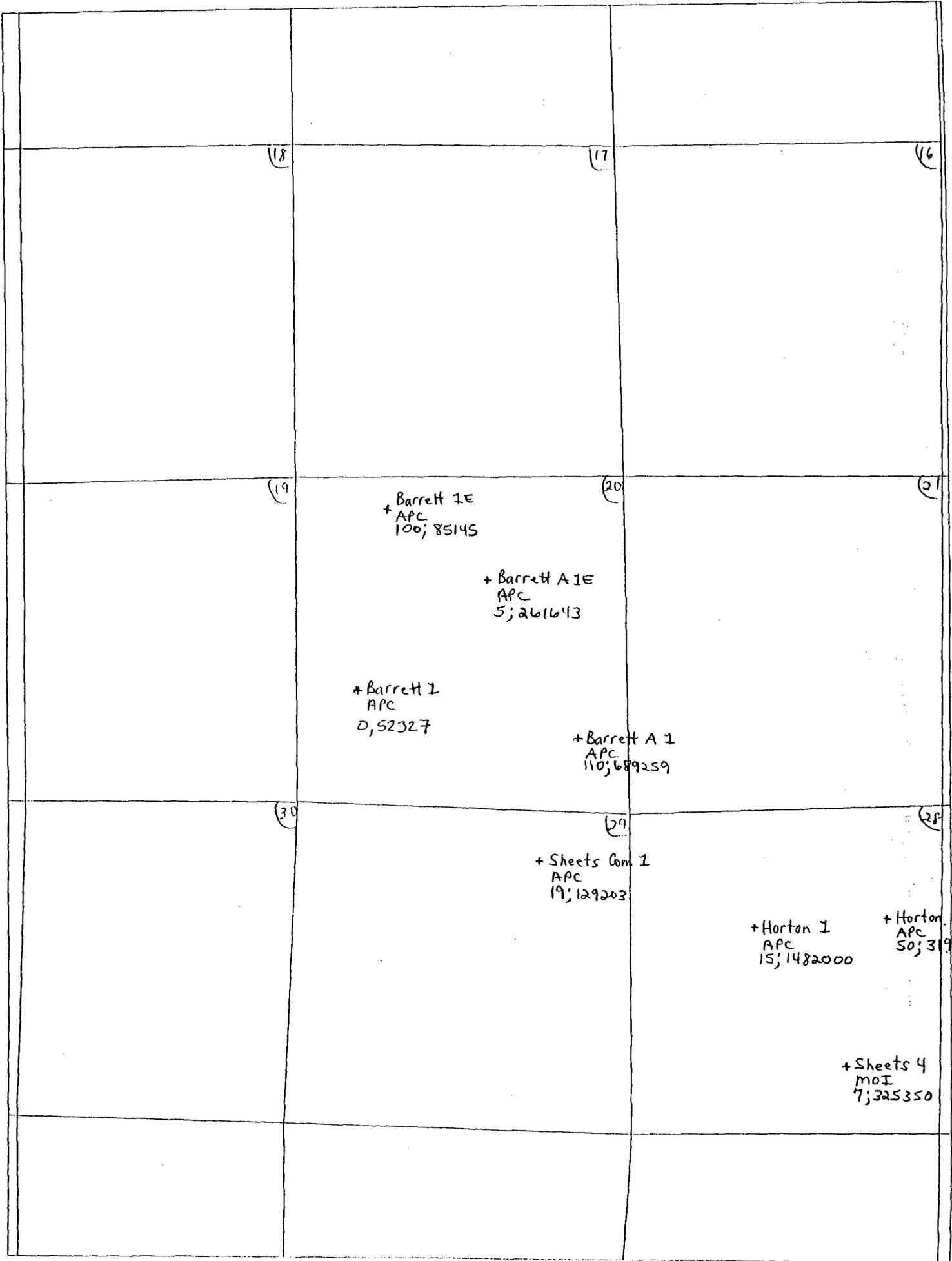
Chart1

Well: BARRETT A 001E-DK (97985001)

10/30/95  
10:45 AM  
2 MCFD  
0 TP  
574 CP  
315 LP



DK wells Sec 20-T31N-R9W Barrett A 1E



18

17

16

19

20

21

30

29

31

+ Barrett 1E  
APC  
100; 85145

+ Barrett A 1E  
APC  
5; 261643

+ Barrett 1  
APC  
0, 52327

+ Barrett A 1  
APC  
110; 689259

+ Sheets Com 1  
APC  
19; 129203

+ Horton 1  
APC  
15; 1482000

+ Horton 1E  
APC  
50; 319128

+ Sheets 4  
MOI  
7; 325350

# Dwights

Lease: BARRETT A 00001E

Retrieval Code: 251,045,31N09W20G00DK

04/17/96

3  
10  
3  
10

3  
10

2  
10  
2  
10

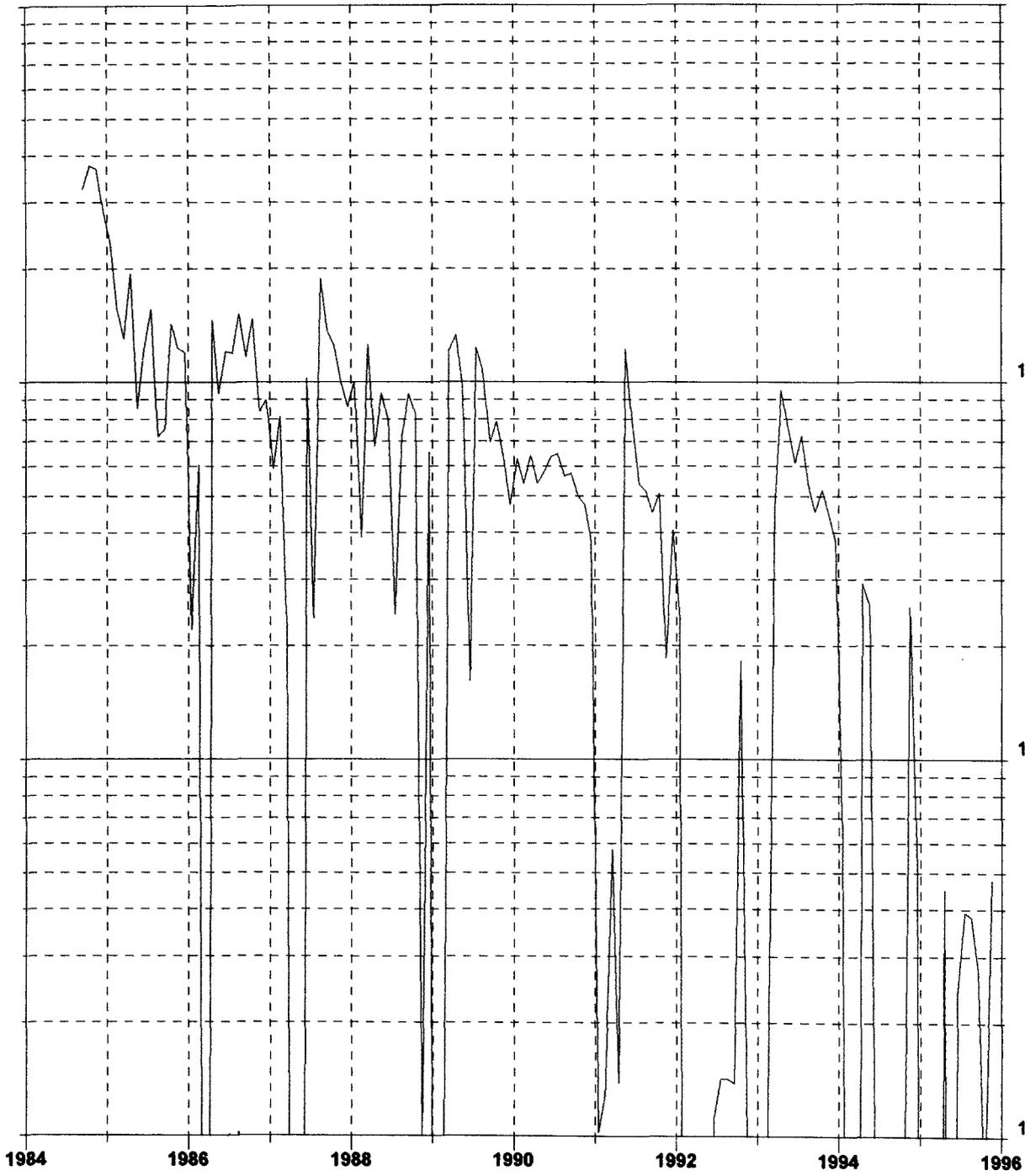
2  
10

10  
10

10  
10

1  
1

1  
1



Gas (mcf/day)

County: SAN JUAN, NM

F.P. Date: 09/84

Oil (bbl/day)

Water (bbl/day)

Field: BASIN (DAKOTA) DK

Oil Cum: 18 bbl

Reservoir: DAKOTA

Gas Cum: 261.6 mmcf

Operator: AMOCO PRODUCTION CO

Location: 20G 31N 9W

**OFFSET WELLS USED TO ESTIMATE MESAVERDE PRODUCTION**  
**AVERAGE STABILIZED RATES FROM NEWER WELLS**

San Juan 32-9 Unit 18R	K-17-31-9	375 MCFD
Sheets 1R	28-31-9	400 MCFD
Jacques LS #1R	B-29-31-9	400 MCFD

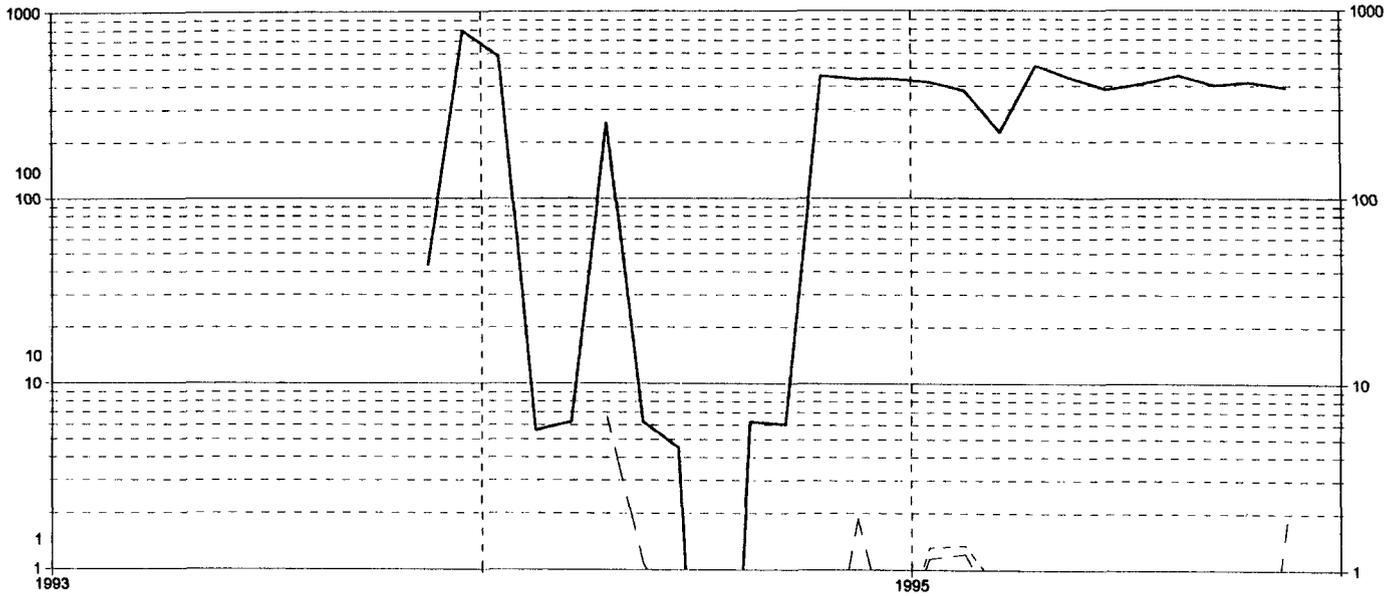
**ALLOCATION METHOD**

Allocation shall be established by testing the Mesaverde after frac and cleanup and before removing the bridge plug. Once that rate is established, the allocation will be set at the percentage contributed by the existing Dakota and the new rate established in the Mesaverde. We will forward those allocation percentages to you after the Mesaverde completion has been established.

# Dwights

Lease: JACQUES LS 00001R

Retrieval Code: 251,045,31N09W29B00M

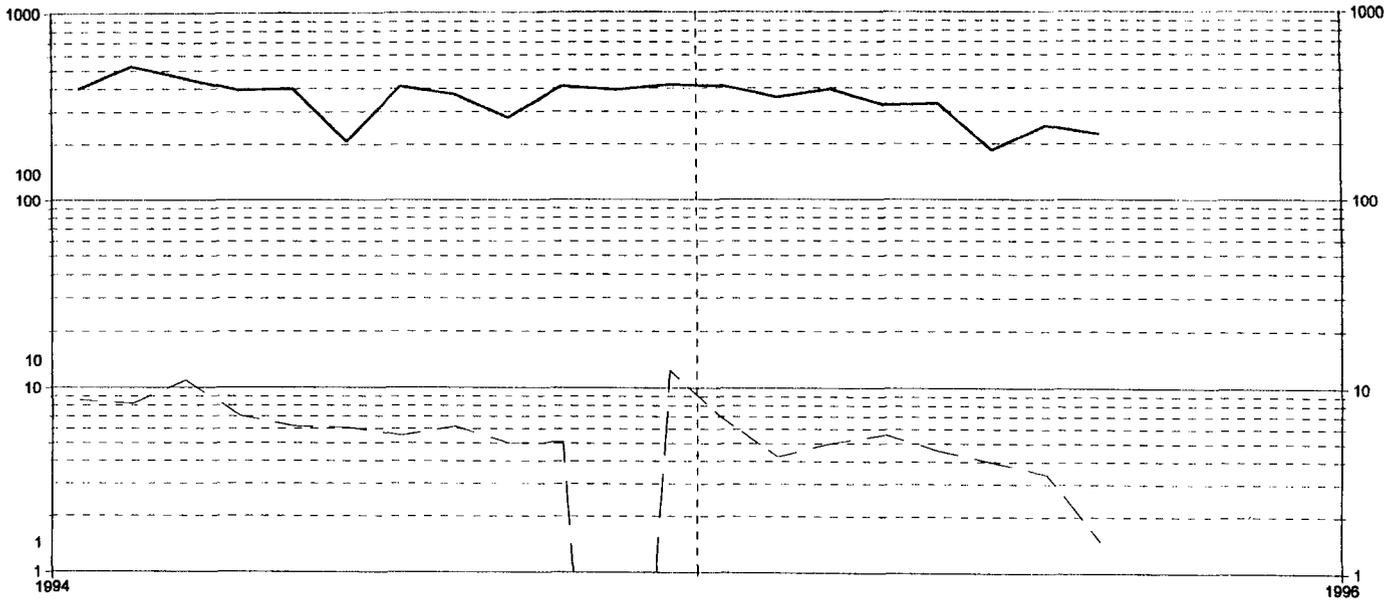


County: SAN JUAN	State: NM	F.P. Date: 11/93	Date: 04/04/96
Field: BLANCO (MESAVERDE) MV	Oil Cum: 599 bbl	Water (bbl/day)	---
Reservoir: MESAVERDE	Gas Cum: 226735 mcf	Gas (mcf/day)	---
Operator: AMOCO PRODUCTION CO	Location: 29B 31N 9W	Oil (bbl/day)	---

# Dwights

Lease: SHEETS 001R

Retrieval Code: 251,045,045286477231



County: SAN JUAN

State: NM

F.P. Date: 01/94

Date: 04/04/96

Field: BLANCO (MESAVERDE) MV

Oil Cum: 3636 bbl

Reservoir: MESAVERDE

Gas Cum: 216846 mcf

Water (bbl/day)

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Operator: MERIDIAN OIL INC

Location: 28 31N 9W

Gas (mcf/day)

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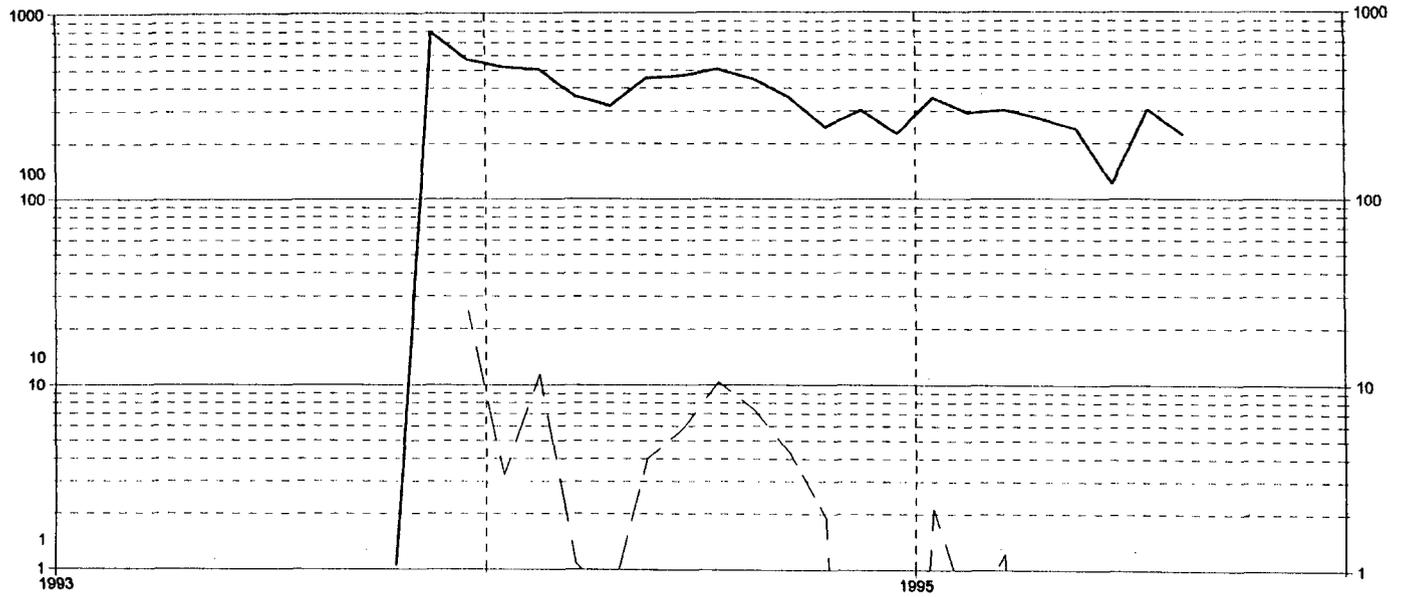
Oil (bbl/day)

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# Dwights

Lease: SAN JUAN 32 9 UNIT 00016R

Retrieval Code: 251,045,31N09W17K00M



County: SAN JUAN	State: NM	F.P. Date: 10/93	Date: 04/04/96
Field: BLANCO (MESAVERDE) MV	Oil Cum: 2461 bbl		
Reservoir: MESAVERDE	Gas Cum: 246688 mcf	Water (bbf/day) ---	
Operator: MERIDIAN OIL INC	Location: 17K 31N 9W	Gas (mcf/day) - - - -	Oil (bbf/day) ———

**OFFSET OPERATORS**  
**BARRETT A #1E**

Meridian Oil, Inc.  
P.O. Box 4289  
Farmington, NM 87499